



ELSEVIER

Comput. Methods Appl. Mech. Engrg. 152 (1998) 437–438

**Computer methods  
in applied  
mechanics and  
engineering**

## Contents Volume 152

### Volume 152, Nos. 1–2, 22 January 1998

The partition of unity method for the elastically supported beam <i>I. Babuška and Z. Zhang</i>	1
Arbitrary Lagrangian–Eulerian formulation for element-free Galerkin method <i>J.-P. Ponthot and T. Belytschko</i>	19
Meshless methods for shear-deformable beams and plates <i>B.M. Donning and W.K. Liu</i>	47
A hierarchical finite element method based on the partition of unity <i>R.L. Taylor, O.C. Zienkiewicz and E. Oñate</i>	73
Large-scale simulation of elastic wave propagation in heterogeneous media on parallel computers <i>H. Bao, J. Bielak, O. Ghattas, L.F. Kallivokas, D.R. O'Hallaron, J.R. Shewchuk and J. Xu</i>	85
Modeling of electromagnetic absorption/scattering problems using <i>hp</i> -adaptive finite elements <i>L. Demkowicz and L. Vardapetyan</i>	103
The conjugated vs. the unconjugated infinite element method for the Helmholtz equation in exterior domains <i>K. Gerdes</i>	125
A Galerkin-type BE-FE formulation for elasto-acoustic coupling <i>Z.S. Chen, G. Hofstetter and H.A. Mang</i>	147
Parallel processing for the simulation of problems involving scattering of electromagnetic waves <i>K. Morgan, P.J. Brookes, O. Hassan and N.P. Weatherill</i>	157
Highly accurate non-reflecting boundary conditions for finite element simulations of transient acoustics problems <i>A.J. Safjan</i>	175
Least-squares for second-order elliptic problems <i>J.H. Bramble, R.D. Lazarov and J.E. Pasciak</i>	195
An efficient quadratic fit—Sectioning algorithm for minimization without derivatives <i>T.R. Chandrupatla</i>	211
Discretization schemes on triangular grids <i>R.E. Ewing, O. Sæviareid and J. Shen</i>	219

On the least-squares method <i>B.-N. Jiang</i>	239
The weighted finite element method for elasticity equations on unbounded domains <i>H.-S. Oh, J. Gi Kim and S. Sup Yum</i>	259
 <b>Volume 152, Nos. 3-4, 24 January 1998</b>	
BEC: A 2-node fast converging shear-deformable isotropic and composite beam element based on 6 rigid-body and 6 straining modes <i>J. Argyris, L. Tenek and A. Mattsson</i>	281
Numerical analyses of operator-splitting algorithms for the two-dimensional advection-diffusion equation <i>L.A. Khan and P.L.-F. Liu</i>	337
Antioptimization of structures with large uncertain-but-non-random parameters via interval analysis <i>Z. Qiu and I. Elishakoff</i>	361
The analysis of carbon fibre composite box beams subjected to torsion with variable twist <i>J. Loughlan and M. Ata</i>	373
Approximation of shell geometry for non-linear analysis <i>P. Destuynder and M. Salaiün</i>	393
Author Index of Volume 152	431
Subject Index of Volume 152	435
Contents Volume 152	439
Instructions to authors	441

11